TABLE M.5.6.1.2–6. — ***National Ignition Facility Accident Frequency and Risk (Unfavorable Meteorology)***

		MEI		Offsite Population [a]		Individual Noninvolved Worker		Noninvolved Worker Population	
Accident	**Frequency (per year)**	**Dose (rem)**	**LCFs [b]**	**Dose (person-rem)**	**LCFs [c]**	**Dose (rem)**	**LCFs [b]**	**Dose (person-rem)**	**LCFs [c]**
Earthquake during No Action Alternative operations	2.00×10^{-8}	1.23×10^{-10}	7.38×10^{-14}	6.10×10^{-8}	3.66×10^{-11}	2.67×10^{-10}	1.60×10^{-13}	4.44×10^{-8}	2.66×10^{-11}
Earthquake during depleted uranium shot	2.00×10^{-9}	2.19×10^{-11}	1.31×10^{-14}	9.02×10^{-9}	5.41×10^{-12}	4.51×10^{-11}	2.71×10^{-14}	7.48×10^{-9}	4.49×10^{-12}
Earthquake during highly enriched uranium shot	2.00×10^{-9}	2.28×10^{-11}	1.37×10^{-14}	9.34×10^{-9}	5.61×10^{-12}	4.66×10^{-11}	2.80×10^{-14}	7.66×10^{-9}	4.60×10^{-12}
Earthquake during thorium shot	2.00×10^{-9}	2.29×10^{-11}	1.37×10^{-14}	9.52×10^{-9}	5.71×10^{-12}	4.62×10^{-11}	2.77×10^{-14}	8.20×10^{-9}	4.92×10^{-12}
Earthquake during tracer shot	2.00×10^{-9}	1.40×10^{-11}	8.42×10^{-15}	6.52×10^{-9}	3.91×10^{-12}	3.05×10^{-11}	1.83×10^{-14}	4.88×10^{-9}	2.93×10^{-12}
Earthquake during plutonium without yield shot	2.00×10^{-9}	4.33×10^{-11}	2.60×10^{-14}	1.67×10^{-8}	1.00×10^{-11}	9.39×10^{-11}	5.63×10^{-14}	1.65×10^{-8}	9.88×10^{-12}
Earthquake during plutonium with yield shot	2.00×10^{-9}	2.32×10^{-11}	1.39×10^{-14}	9.96×10^{-9}	5.98×10^{-12}	5.01×10^{-11}	3.01×10^{-14}	8.54×10^{-9}	5.12×10^{-12}

Source: LLNL 2003d.

[a] Based on the population of approximately 6,900,000 persons residing within 50 miles of LLNL.

[b] Increased likelihood of a latent cancer fatality.

[c] Increased number of latent cancer fatalities.

LCFs = latent cancer fatalities; MEI = maximally exposed individual.